

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
STK-1 DIV-3SERIAL NO.
09/287,500INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

APPLICANTS

John C. Lee and Lee-Chuan Yeh

FILING DATE
April 7, 1999GROUP ART UNIT
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
QR	Andrews, P. W. et al., "Inhibition of Proliferation and Induction of Differentiation of Pluripotent Human Embryonal Carcinoma Cells by Osteogenic Protein-1 (Or Bone Morphogenetic Protein-7)," <u>Laboratory Investigation</u> 71:243-251 (1994).
	Benayahu, D., et al., "Differential Effects of Retinoic Acid and Growth Factors on Osteoblastic Markers and CD10/NEP Activity in Stromal-Derived Osteoblasts," <u>Journal of Cellular Biochemistry</u> 56:62-73 (1994).
	Benayahu, D., et al., "PTH and 1,25(OH) Vitamin D Priming To Growth Factors Differentially Regulates The Osteoblastic Markers in MBA-15 Clonal Subpopulations," <u>Biochemical and Biophysical Research Communications</u> 210:197-204 (May 5, 1995).
	Canalis, Ernesto, et al., "Bone Morphogenetic Protein 2 Increases Insulin-like Growth Factor I and II Transcripts and Polypeptide Levels in Bone Cell Cultures," <u>Journal of Bone and Mineral Research</u> 9:1999-2005 (1994).
	Chen, P. et al., "Osteogenic Protein-1 Promotes Growth and Maturation of Chick Sternal Chondrocytes in Serum-free Cultures," Osteogenic protein-1 promotes growth and maturation of chick sternal chondrocytes in serum-free cultures," <u>Journal of Cell Science</u> 108:105-114 (January 1995).
	Cook, Stephen D., et al., "Recombinant Human Bone Morphogenetic Protein-7 Induces Healing in a Canine Long-Bone Segmental Defect Model," <u>Clinical Orthopaedics & Related Research</u> 201:302-312 (April 1994).
	Cook, Stephen D., et al., "The Effect of Recombinant Human Osteogenic Protein-1 on Healing of Large Segmental Bone Defects," <u>The Journal of Bone and Joint Surgery</u> 76-A:827-838 (June 1994).
	Cook, Stephen D., et al., "In Vivo Evaluation of Recombinant Human Osteogenic Protein (rhOP-1) Implants as a Bone Graft Substitute for Spinal Fusions," <u>Spine</u> 19:1655-63 (August 1, 1994).
	Cook, Stephen D., et al., "Effect of Recombinant Human Osteogenic Protein-1 on Healing of Segmental Defects in Non-Human Primates," <u>The Journal of Bone and Joint Surgery</u> 77-A:734-750 (May 1995).
	Dudley, A.T. et al., "A Requirement for Bone Morphogenetic Protein-7 During Development of the Mammalian Kidney and Eye," <u>Genes and Development</u> 9:2795-2807 (November 1995).
	Gabbittas, Bari, et al., "Bone Morphogenetic Protein-2 Inhibits the Synthesis of Insulin-Like Growth Factor-Binding Protein-5 in Bone Cell Cultures," <u>The Endocrine Society</u> 136:2397-2403 (1995).
QR	Gitelman, Stephen E., et al., "Recombinant Vgr-1/BMP-6-expressing Tumors Induce Fibrosis and Endochondral Bone Formation In Vivo," <u>J. Cell Biol.</u> 126:1595-1609 (1994).

EXAMINER

*Donald Rocco*DATE CONSIDERED *10/6/1*

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Guerne, Pierre-André, et al., "Growth Factor Responsiveness of Human Articular Chondrocytes: Distinct Profiles in Primary Chondrocytes, Subcultured Chondrocytes, and Fibroblasts," J. Cell. Phys. 158:476-484 (1994).

Hammerman, Marc R., "Growth Factors in Renal Development," Seminars in Nephrology 15:291-299 (July 1995).

Helder, M.N., et al., "Expression Pattern of Osteogenic Protein-1 (Bone Morphogenetic Protein-7) in Human and Mouse Development," J. Histochem. and Cytochem. 43:1035-44 (October 1995).

Hentunen, T.A. et al., "Effects of Recombinant Human Osteogenic Protein-1 on the Differentiation of Osteoclast-like Cells and Bone Resorption," Biochemical and Biophysical Research Communications 209:433-443 (April 17, 1995).

Hiraki, Yuji, et al., "Bone Morphogenetic Proteins (BMP-2 and BMP-3) Promote Growth and Expression of the Differentiated Phenotype of Rabbit Chondrocytes and Osteoblastic MC3T3-E1 Cells In Vitro," Journal of Bone and Mineral Research 6:1373-1385 (December 1991).

Kawamura, Morio, et al., "Growth Factors, Mitogens, Cytokines, and Bone Morphogenetic Protein in Induced Chondrogenesis in Tissue Culture," Developmental Biology 130:435-442 (1988).

Kirker-Head, C.A., et al., "Recombinant Bone Morphogenetic Proteins: Novel Substances for Enhancing Bone Healing," Veterinary Surgery 24:408-418 (September-October 1995).

Knutsen, R., et al., "Osteogenic Protein-1 Stimulates Proliferation and Differentiation of Human Bone Cells in Vitro," Biochemical and Biophysical Research Communications 194:1352-1358 (August 16, 1993).

Knutsen, R., et al., "Regulation of Insulin-Like Growth Factor System Components by Osteogenic Protein-1 in Human Bone Cells," Endocrinology 136:857-865 (March 1995).

Liem, Karel, Jr., et al., "Dorsal Differentiation of Neural Plate Cells Induced by BMP-Mediated Signals from Epidermal Ectoderm," Cell 82:969-979 (September 22, 1995).

Luo, G., et al., "BMP-7 (OP-1) Deficient Mice Fail To Develop Glomeruli And Have Skeletal Patterning Defect," J. Bone Min. Res. 10:97 (August 1995).

Luo, G., et al., "BMP-7 is an Inducer of nephrogenesis, and is also required for eye development and skeletal patterning," Genes & Development 9:2808-2820 (1995).

Lyons, K.M., et al., "Colocalization of BMP 7 and BMP 2 RNAs Suggests that These Factors Cooperatively Mediate Tissue Interactions During Murine Development," Mech. of Development 50:71-83 (March 1995).

Mehler, Mark F., et al., "Cytokines Regulate The Cellular Phenotype Of Developing Neural Lineage Species," Int. J. Devel. Neurosci. 13:213-240 (1995).

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DATE CONSIDERED 10/5/11

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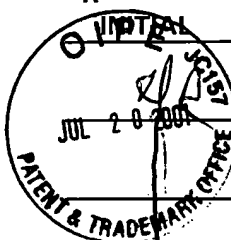
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Ripamonti, U. and S. Vukicevic, "Bone Morphogenetic Proteins: From Developmental Biology to Molecular Therapeutics," So. Afr. J. Sci. **91**:277-80 (June 1995).

Rutherford, R.B., et al., "Use of Bovine Osteogenic Protein to Promote Rapid Osseointegration of Endosseous Dental Implants," Int. J. Oral Maxillofac. Implants **7**:297-301 (1992).

Sampath, T. K. and A.H. Reddi, "Dissociative extraction and reconstitution of extracellular matrix components involved in local bone differentiation," Proc. Natl. Acad. Sci. - Cell Biology **78**:7599-7603 (December 1981).

Sampath, T. Kuber, et al., "Recombinant Human Osteogenic Protein-1 (hOP-1) Induces New Bone Formation *in Vivo* with a Specific Activity Comparable with Natural Bovine Osteogenic Protein and Stimulates Osteoblast Proliferation and Differentiation *in Vitro*," J. Biol. Chem. **267**:20352-20362 (October 5, 1992).

Sampath, T. Kuber, et al., "Role Of Osteogenic Protein-1 (OP-1) In Growth, Development And Repair Of Bone," J. Cellular Biochem. Supplemental **17E**:147 (1993).

Vukicevic, S., et al., "Localization of Osteogenic Protein-1 (Bone Morphogenetic Protein-7) During Human Embryonic Development: High Affinity Binding To Basement Membranes," Biochemical and Biophysical Research Communications **198**:693-700 (January 28, 1994).

Vukicevic, S., et al., "Discovery and Clinical Applications of Bone Morphogenetic Proteins," Eur. J. Clin. Chem. Clin. Biochem. **33**:661-671 (October 1995).

Wozney, John M., "The Potential Role of Bone Morphogenetic Proteins in Periodontal Reconstruction," J. Periodontol. **66**:506-510 (1995).

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*David Rennie*DATE CONSIDERED *10/8/1*

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